

Meeting Purpose

- Project overview
- Review Purpose and Need
- Present alternatives being considered
- Seek your feedback on intersection alternatives and access management
- Next Steps





Study Purpose

In-depth look at:

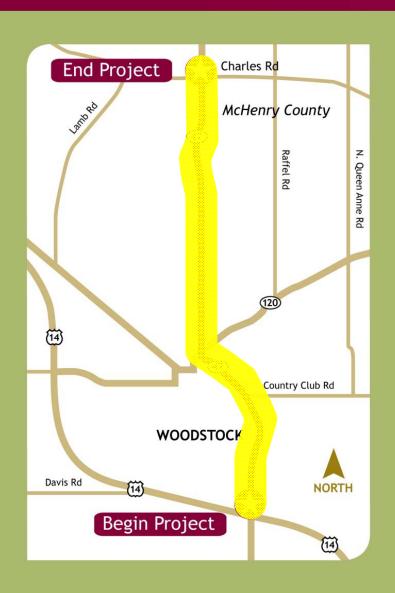
- Existing roadway
- Safety and capacity
- Drainage issues
- Analysisof futuretransportationneeds

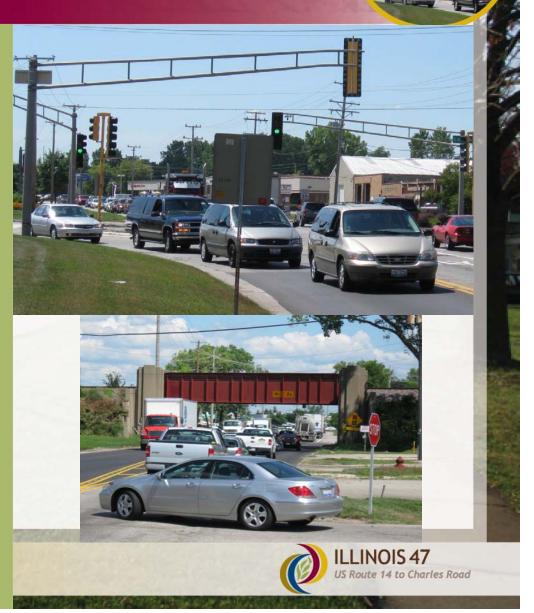






Project Overview





IDOT Process

We Are Here

> Preliminary Engineering FUNDED (Phase I)

Contract Plan
Preparation
FUNDED
and
Land Acquisition
NOT FUNDED
(Phase II)

Construction and Construction Engineering NOT FUNDED (Phase III)

Winter of 2015

1 ½ to 2 years

2 to 3 years





Study Overview

 Following Federal National Environmental Policy Act (NEPA) process



Context Sensitive Solutions (CSS)

- CSS will facilitate an open study process
- Fully engaging stakeholders
- Resulting in a Preferred Alternative





Public Involvement



Citizens Advisory
Group (CAG)
Meetings



What we heard!

- Roadway Safety
- Travel Delays
- Number of access points
- Lack of multimodal facility
- Lack of turn lanes

One-on-One Meetings







IL 47 – Purpose and Need

Purpose:

The purpose of the project is to address transportation safety, capacity, access management, pedestrian and bicycle needs, and geometric deficiencies.

Needs:

- Safety
- Capacity/Operations
- Access Management
- Bicycle/Pedestrian Accommodation
- Geometric Deficiencies







Purpose and Need – Safety & Capacity

Safety

- 399 crashes from 2010-2012
 - Majority rear-end (60% of total)
 - Turning: 16%
 - Angle: 13%
 - 120 injury crashes





Operation and Capacity Deficiencies

- Existing vehicles per day 26,200
- Projected average vehicles per day 35,000





Purpose and Need – Access Management



- Maintain access to properties while minimizing impact to roadway operations
- Utilize access management in order to improve travel flow throughout the corridor
- As the frequency of driveways and access points increases, so does the crash rate.
- IL Route 47 from US 14 to Ware Road has a driveway frequency of 50 driveways per mile.





12

Purpose and Need – Accessibility



Non-Motorized Transportation

- Sidewalks are intermittent
- No bike paths in corridor
- Limited pedestrian crossings
- Hindering access to existing public transportation facilities





Purpose and Need – Geometric

Geometric Deficiencies

- 7 of 11 major intersections have sharp angles
- Union Pacific Railroad constriction
- Lack of exclusive turn lanes or insufficient storage length at intersection









Alternatives Development

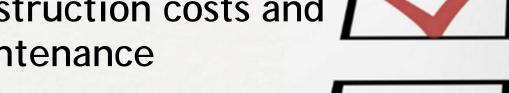
- Alternatives development combines:
 - Stakeholder input to date
 - CAG assistance
 - Traditional intersections
 - Roundabouts
 - Project purpose and needs
 - Analysis of existing environment
 - Technical analysis of design requirements and constraints





Evaluation Criteria

- **Environmental impacts**
- Accessibility
- Identified needs
- **Property impacts**
- Construction costs and maintenance







Full Range of Alternatives

- On-Alignment Alternatives
- Bypass Alternatives
 - E We
 - B2.
 - One-Wa Let Alternat
 - C1: to St. John's
 - C² Ware
 - Co. Ing to John's
 - C4: Irving to Ware
 - By-pass and one-way couplets eliminated from further consideration





REGIONAL ALTERNATIVES SCHEMATIC
ILLINOIS ROUTE 47 - US ROUTE 14 TO CHARLES ROAD





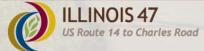


Typical Section Rendering

Looking North from IL Route 120 Intersection







U-Turns – Signalized Intersection







U-Turns - Roundabouts





ON-ALIGNMENT INTERSECTION ALTERNATIVES

INTERSECTION	EXISTING	PROPOSED ALTERNATIVES
Lake Avenue		or P
McConnell Road		or
Irving Avenue/Judd Street		or
St. John's Road	MS	
Ware Road	MS	or MS
Charles Road		or —



Roundabout Alternative



Minor Stop



Potential Traffic Signal



All-Way Stop

What is a Roundabout?

Roundabouts provide opportunities to improve safety and operational efficiency, as well as other benefits.

- Fewer conflict points for vehicles
- Lower crash severity
- Vehicle speeds are low (approximately 20 mph)







Pros and Cons of IL 47 Roundabouts



Pros:

- Less delay
- Less severe crashes
- Fewer conflict points
- Reduced noise
- Pedestrians only look one way for vehicles

Cons:

- New to drivers
- Lighting is required
- No signal to stop traffic for pedestrians



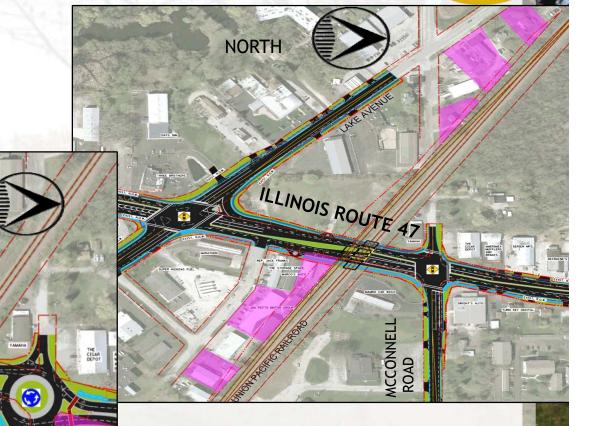




Lake and McConnell

NORTH

ILLINOIS ROUTE 47







Lake and McConnell Roundabouts

Lake and McConnell must both be Roundabouts or both be Signals

Pros:

- Addresses Intersection angle
- 4 fewer relocations
- 7 fewer affected parcels
- Does not impact the railroad bridge, saving approximately \$30 million
- Reduces construction schedule 1 to 2 years

Cons:

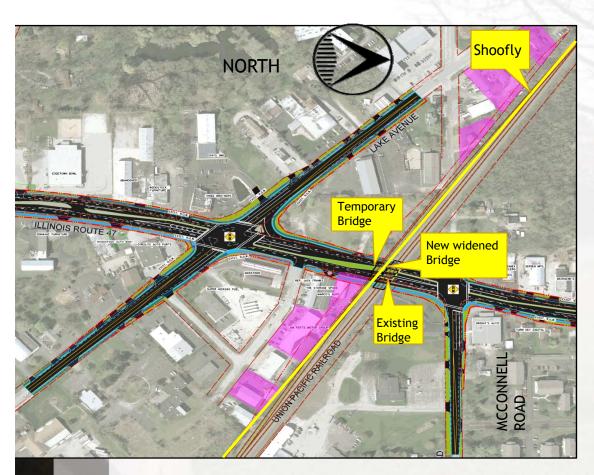
- Wetland impacts
- Bridge opening does not change







Lake and McConnell Signalized Intersections



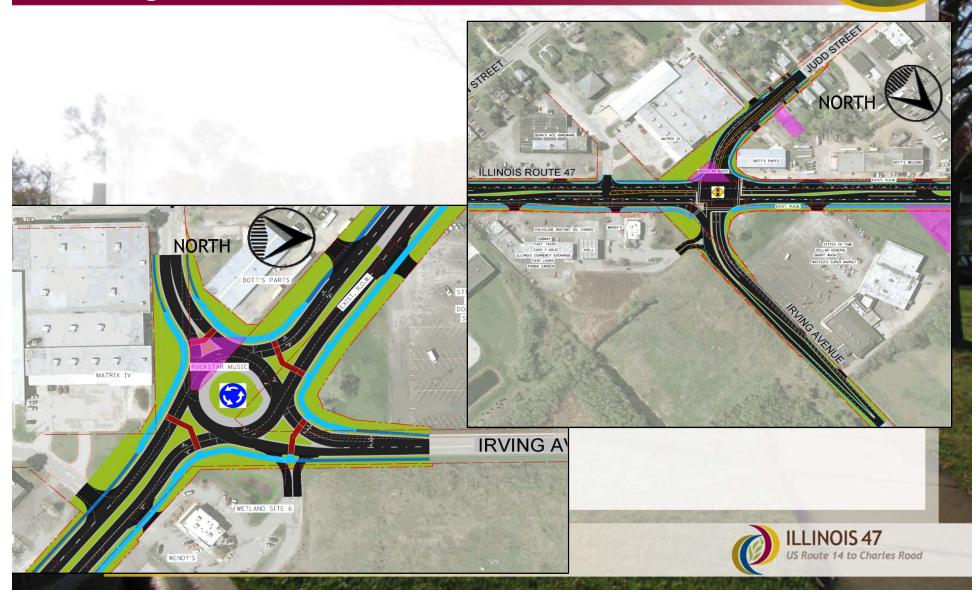
- Construction of additional turn lanes
- Require removal of the existing railroad bridge
- New railroad bridge with a wider opening
- Construction of new bridge requires a temporary railroad track called a shoofly
- Estimated additional cost of \$30 million
- 1 -2 years to build the shoofly and permanent bridge prior to roadway construction







Irving Avenue / Judd Street Roundabouts



Pros:

- Addresses Intersection angle
- One less residential relocation
- Works well with Country Club Road and Route 120 signals

Cons:

More Right of Way required

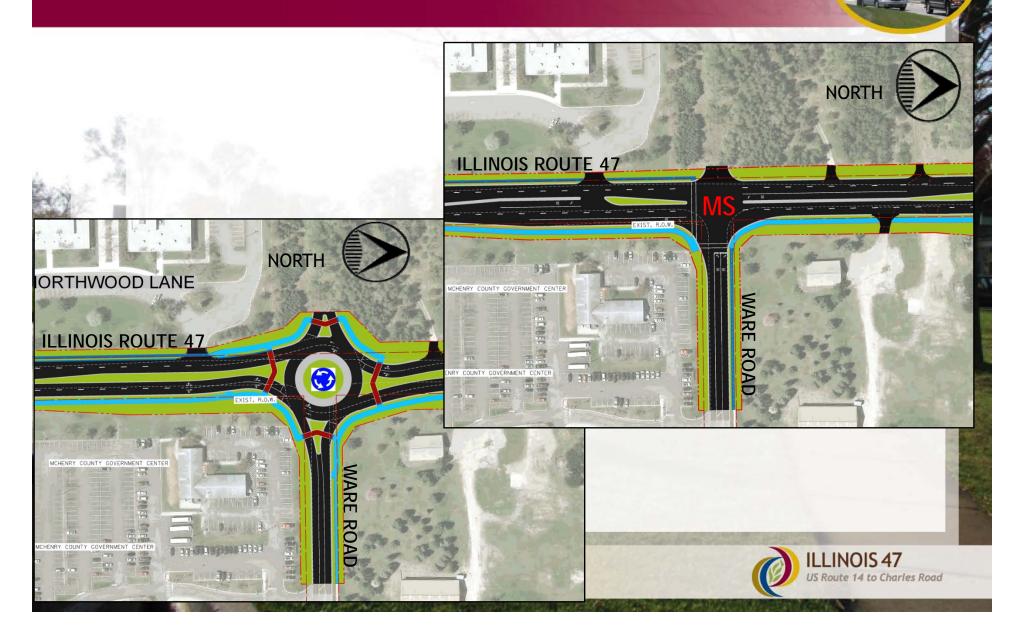






20

Ware Road





21

Ware Road and Charles Road Roundabouts

Pros:

- Free flow movement better than a stop sign
- Works well with Russell signal
- Slows traffic entering Woodstock

Cons:

More Right of Way Required

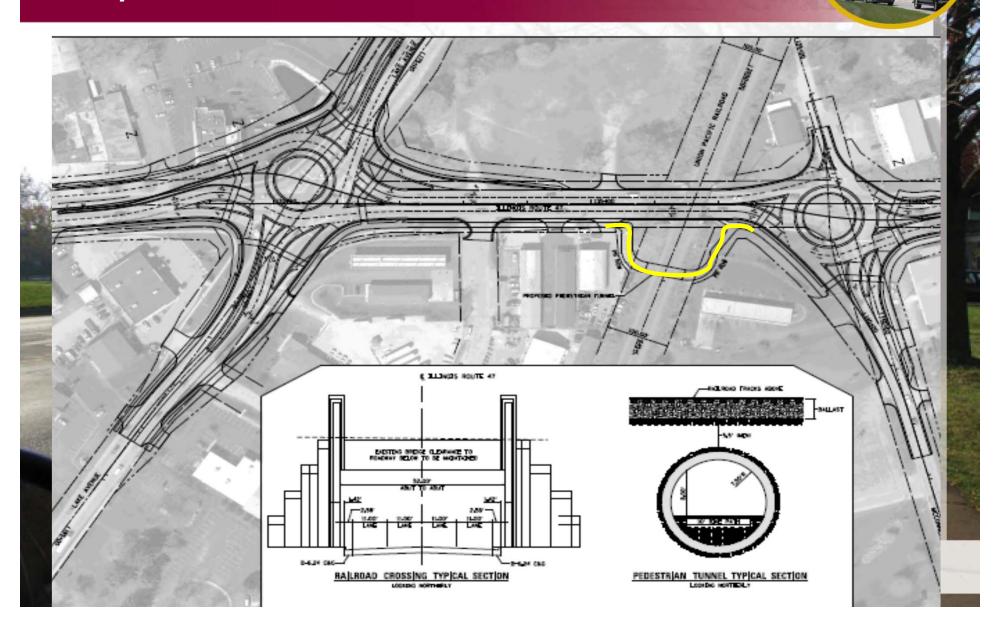






THE WAR THE STATE OF THE STATE Charles Road Pedestrian Accommodations **NORTH** Proposed 5' Sidewalk* Ware Road Proposed 10' Shared Use Path* St. John's Rd. PROPOSED TYPICAL SECTION US ROUTE 14 TO CHARLES ROAD € L 47 Irving Ave./Judd St. SHARED USE PATH SIDEWALK TRAVEL LANES BARRIER MEDIAN TRAVEL LANES **URBAN** Country Club Rd. McConnell Rd. Southview Dr. *Local cost participation and maintenance required Illinois Department of Transportation US Route 14

Proposed Shared Use Path



Project Benefits



- •Continuous Bike/Ped Facility
- •Safer environment for the motoring public
- •Better travel environment
- •Safe access to property/businesses





Detailed Environmental & Technical Studies

- Avoid and Minimize Impacts
- Public Properties
- Wetlands
- Cultural Resources
- For more information on the potential environmental impacts, please visit the exhibit room
- Technical Studies Drainage

Land Acquisition

- There will be property impacts
- Right-of-way requirements will be further refined as a recommended Preferred Alternative is identified







Next Steps

- Feedback from today's Public
 Meeting
 - Refine design details
 - Environmental studies continue
 - Right-of-way needs refined
 - Cost estimate
 - Access consolidation determined
 - Recommended preferred on-alignment alternative
 - Public Hearing Fall/Winter 2014





What Do You Think?

- Written comment forms
- Online comment forms at www.IL47woodstockstudy.com
- Comments received by

 July 23, 2014, will become
 part of the public meeting
 record.









